

DATA SHEET

250 Friability Tester

The Agilent 250 measures the percent weight loss of compressed tablets due to handling. The friability test replicates the rigorous environment that tablets are subjected to during the manufacturing, packaging, and distribution processes.



Key Benefits

- **Versatile.** Select a USP-compliant drum configuration, either the original single-chamber Roche drum or the dual-chamber Agilent drum, to meet your testing needs. An abrasion drum is also available for intense friability studies.
- **Durable and compact.** This proven design stands up to continuous usage day after day. And the small footprint allows the unit to fit easily into the laboratory or production areas.
- **Improved quality control.** Avoid problems by quickly spotting possible capping, edging, crumbling, chipping or tablet integrity issues prior to, or after the tablet coating process or shipment.
- **Efficient.** Test up to four sets of tablets consisting of different products or batches simultaneously for greater productivity.





Agilent 250 in a single-drum configuration.



Roche drum

Agilent drum



Abrasion drum

The Agilent 250 Friability Tester is designed to meet current harmonized pharmacopeial specifications contained in the USP and is available in either the single- or dual-drum configuration. Each tester comes standard with either a single-chamber Roche or dual-chamber Agilent drum(s).

Programmable Capabilities

Easily program the Agilent Friability Tester using the keypad with a range of test parameters, including initial and final sample weights*, a specific time interval or a set number of rotations. The LED display indicates either the time elapsed or the revolution count, depending upon the method chosen. The initial and final weights are used to calculate the actual percent loss for friability results when ordered with the optional printer.

*Note: Initial and final weights must be measured using an analytical balance.

Accessories and Options

Available drums:

- Single-chamber Roche drum with the single arch .
- Dual-chamber Agilent drum, with two arched bridges for running two tests simultaneously.
- Abrasion drum for more rigorous informational testing of tablet and coating integrity.
- Optional printer can be factory installed or retrofitted at a later date. The printer provides hard-copy printouts for reporting time, count and calculated percentage loss.

250 Agilent Specifications

Altitude	0 - 2000 m (0 - 6562 ft.)
Temperature	5 to 40 °C
Humidity (%RH) non-condensing	Not more than 80
Voltage requirements	115 V / 60 Hz 230 V / 50 Hz
Current requirements	115 V—1.5 Amp 230 V—0.75 Amp
Fuse requirements	115 V—1.5 Amp, 250 V, 5 mm x 20 mm FAST 230 V—0.75 Amp, 250 V, 5 mm x 20 mm FAST
Operating modes	Counter or timer, user selectable
Test duration display format	Rotations programmable up to 999,999 rotations or hh:mm:ss programmable up to 99:99:99
Rotation speed	25 ± 1 RPM
Counter mode accuracy	Actual setting ± 1 rotation
Standard drum types	Single-chamber Roche, dual-chamber Agilent or Abrasion
Drum material	Acrylic
Keypad	Sealed switch-type with numeric menu keys
Printer (optional)	Impact
Dimensions	Height (with drums): 34.93 cm (13.75 in.) Width (with single drum): 32.38 cm (12.75 in.) Width (with dual drum): 40.94 cm (16.12 in.) Depth (with drums): 31.11 cm (12.25 in.)
Equipment weight	9.9 kg (21.9 lb), with dual drums

Ordering Information

Product Description	Part Number
Single-drum Tester	
250 Friability Tester, 115 V, 60 Hz with Roche drum	45-1200
250 Friability Tester, 230 V, 50 Hz with Roche drum	45-1400
250 Friability Tester, 115 V, 60 Hz with Agilent drum*	45-1000
250 Friability Tester, 230 V, 50 Hz with Agilent drum*	45-1300
Dual-drum Tester	
250 Friability Tester, 115 V, 60 Hz with Roche drum	45-2100
250 Friability Tester, 230 V, 50 Hz with Roche drum	45-2300
250 Friability Tester, 115 V, 60 Hz with Agilent drum*	45-2000
250 Friability Tester, 230 V, 50 Hz with Agilent drum*	45-2200

*Tests two batches in the same drum.

Accessory Ordering Information

Product Description	Roche Drum Part Number	Agilent Drum Part Number	Abrasion Drum Part Number
Drum, clockwise rotation, standard	47-1010	47-1000	-
Drum, counterclockwise rotation, standard	47-1015	47-1005	-
Drum, clockwise rotation, includes individual certificate	47-1010V	47-1000V	-
Drum, counterclockwise rotation, includes individual certificate	47-1015V	47-1005V	-
Drum, clockwise or counterclockwise rotation, standard	-	-	47-1020

To learn more about Dissolution Testing,
visit us at www.agilent.com/lifesciences/dissolution

